ANT/BAI/02

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RCTICA

0003

J H C BAIN

(2) BMR.

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17	MT KENNEDY 0135 - 0138?
18	MOONIE NTK.
18	JACQUES NTK 0139 - 0140
19.	MT HINKS.

→

Rock specimens! [illegible] 930
Packed in green 5 gal buckets
numbered 1–35

(1) 0232
0607

(2) 0608
0605

(3) 0224

(4) 0223

(5) 0222

(6) 0220
0221

(7) 0219

(8) 0610
0603
0235

(9) 0604
0217

(10) 0233
0230

(11) 0602
0609

(12) 423

(13) 495
493

(14) 497
494

(15) 491
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0227

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⑱ 258
454
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460
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263
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0033
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0020
501
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0040
0031
0022
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0035

⑲ 419
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0005
0008

㉓ 466
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453
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265
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165
256
0043
462
470
458
455
264
463

㉔ 500
498
417
418

㉕ 0601
0228

㉖ 0226
0231
0227

(27) (0473 - 0517)
0473 - 80
([illegible]) [illegible] 482 - 7
489
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508 - 17.

(28) 0009
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288 - 290
292 - 296
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306 - 307
309 - 317
[illegible]
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249.

(30) 0044 - 54
0056
0059 - 63

(31) 267 - 271
273 - 278
"Fisher"
519 - 521
434 ? 403
424.

(32)

(33) 0090
0112
Bensl [illegible]

(34) 0064 - 5
0081 - 85
0088 - 89
0092
0101
0106
0114
0115
0116

(35) 0011 - 12
0017 - 20
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1147 Lecker [illegible] [illegible] [illegible] [illegible])

(36) 201

(37) 202

(38) 203 204

(39) 205 206

(40) 207 208

(41) 209

(42) 210

(43) 211 - 212

(44) 213

(45) 214 — 216

Withdrew rapidly due extreme turbulence & deteriorating weather.

Rock is fairly homogeneous in appearance.

Church Mt 24-2-70.

– Approx 70 n miles E of Mawson

70280119.

Very coarse grained porphyroblastic garnetiferous granitic gneiss with porph of felsp up to 6" long and garnet ½" diam.
The felsp are mostly squarish prismatic crystals with rounded corners.
Samples 0119-0120 of this gn.

0121 0122 ; same
loc samples of fine grained garnetiferous qtz-felsp gn which occur as small (av 6"-10") inclusions and small elongate inclusions (bands?)

There are some thin (sev. inches) felsic veins almost flat lying but inaccessible

Moraine over → glaciated pavement

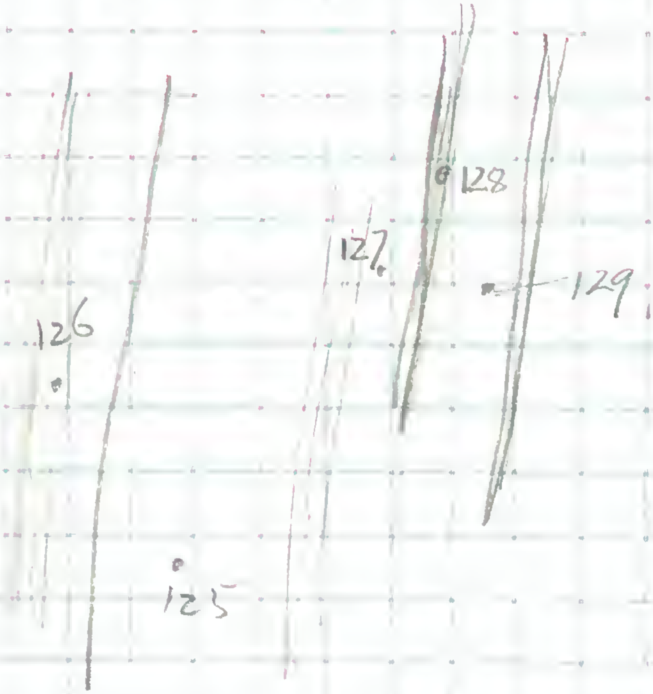
fold axis plunge 52°/035°

Mr Rivett 27-2-70
Northam area. ANT /R /
0123 [Z42/3838 24747]

Highly contorted 'migmatitic' gneisses, with elongate pods of white qtz-fels-gnt gn. e.g. up to 5 metres wide.
in qtz-fels-gnt-sill gn
mafic gn / px.
qtz-px (diop.) gn + gnt
ie granulite — very little biotite
Intrafolial fold - 'photo 18 BW.'

0124 48/238 - mesoscopic layering
= [illegible]
Lineation (mineral streaking) tending towards rodding, plunge 46°/027°
gnt-px-qtz-feld gn (med-f.g.)
SAMPLE
Photo 19 BW

0124-29 : [Z42/3839 24749] →


128
127
129
126
125

Photos looking N from 0130
to "Folded Bluff"

0125 100m north

Interbanded felsic & mafic gneisses
Felsic band about 4m thick
with v. elongate mafic lens
of about 1/2 metre wide

SAMPLES
0125 - grey col. gnt-qtz-fel gneiss
0126 - gnt-bi-px-qtz-fel gn (porphyro)
0127 - pink cg. granite gn (bi)
0128 - mafic gn. (basic gran)
0129 - pink qtz-fel-gnt gneiss
with streaks of massive pink qtz-fel.
and with bright red gnt porphyr.

Macro banding: 52°N / 239°
lineation (plunge 47° / 360°

[242/384,24746] — # Just across Swan bank.
0130 mafic qtz-fel gn
tight folds. SAMPLE

0131 Dyke - porphyritic basalt

SAMPLE [illegible]

Photo, – folded Bluff

Col. / BW

0132

Finer ie thinner banding than rocks to north is pronounced closely spaced parting // banding.

Gnt (up to 1cm) occur as small augen in rather sheared looking rock only a few cms away from unit containing gnts only as porphyroblasts.

Both units contain sill.

u qtz-feb gnt sill px gneisses

SAMPLE

Banding parallel schistosity has following orientation: 52°N/251°

Lineation plunges 50°/333° unit 1

Unit 2 56°N/246° banding

L 56°/347 lineation

Marked iron staining & greenish 'copper' stain also common.

[242/3842224742] 0133-31

0133 – Much pseudotachylite
Th[illegible] ke [illegible] d a [illegible]
3* 10 meter pod of graphite
SAMPLES

0134 Major [illegible]
[illegible] 2-3 inches [illegible]
[illegible] (still [illegible])
50°N/248°

[242, 3841, 24696]

Mt Kennedy 27-2-70

0135 605/262 Banding

Qz-fels-gnt-sill-px gneiss
v. similar to that at 032
but containing more sill
as a rule ✓ SAMPLE
with some 1-2m band of felsic
qtz-fels (gnt) gneiss
and many pseudotachylite bands
- rather sheared gneiss
Blocky outcrop. Banding
not well defined

0136 Felsic band. Sample

0137 } SAMPLES similar to
0138 } 0135

0141 Specimen of ?bi-sill-gnt-qtz-fels
granulite with bright-green
mineral coating weather surface
? copper stain. — for analysis.

Moonie Nk [Z42/3836,24650]
Flying over – no landing spot.
Banding W. dip [illegible] /162°/
Light to dark [illegible] bands
V. similar to in Jacques Nk.

JACQUES Nk
[Z42/3827,24650]

0139

Felsic (qtz-fsp) gn + qtz porph.
v. similar to gn (Norlo)
first landing at Rinette
SAMPLE (banding 85°N/084
Other rock type at
0140 – px-gnt-qtz fsp gn
fine gr. (+ sill).
The bic is sheared in parts
mylonitised with some pseudo
tachylite veins.

0141 see Mt Kennedy.

Grid Ref.

242/ 3766,24681 "MOLLY RIDGE"

MT HINKS . (NW end)   27-2-70

One of Bob's localities - all gathered here before departing for Mawson

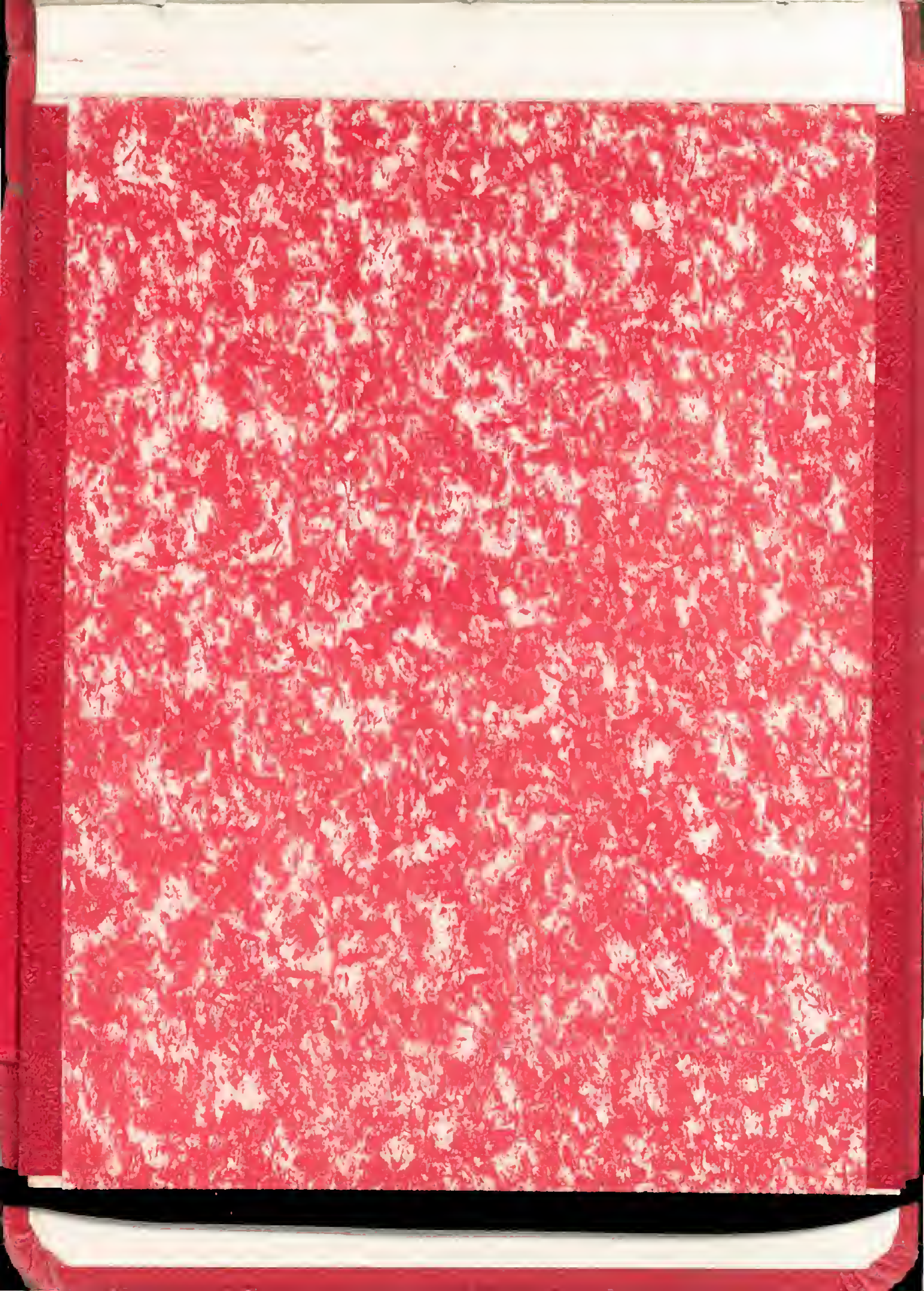
Ken + self, independent of Bob, examined rocks on NW ridge. Found disseminated Molybdenite in gnt (bi) qtz-fels gneisses. Mineralisation apparent in area approx 100-130 metres x 20 metres. Ridge is about 30-50 metres high. Collected many specs - as yet unnumbered for analysis & possible assay.

To SW Bob found mineralisation in part granite elsewhere possibly Moly. This occurs in light (weathering with yellowish stain) coloured felsic bands which are folded and irreg shaped

Black and White Photos

Roll 1.

No 27	Mafic gneiss	Bond Ridge
28	Felsic gneiss	"
29	Pegmatite	"



Pls. return

Bur. Min

Box 378

CANBERRA